

What is claimed is:

1. A cap comprising:

a plastic plug portion (4) and a plastic seal plug (5),

said plug portion (4) having a top wall (11) to cover an opening portion (3) of a vessel (2), a side wall (12) projecting from said top wall (11) along an axis (X) of said plug portion (4), which wall has an inner circumferential surface arranged to fit on an outer circumferential surface of said opening portion (3), and a cylindrical wall (15) forming a receiving chamber (14) having an opening (13) at its lower end face, which wall projects from said top wall (11) on the inside of said side wall (12),

said seal plug (5) having the outer diameter (D1) being larger than outer diameter (D2) of said cylindrical wall (15),

and wherein said seal plug (5) is welded to the lower end face of said cylindrical wall (15) while said receiving chamber (14) is filled with a filling (16).

2. A sealing mechanism for a plastic vessel (2) which can be closed by a plastic cap (1), which mechanism having a plastic sleeve (6),

the vessel (2) having an opening portion (3) and the cap (1) having a plug portion (4) and a seal plug (5), wherein

said plug portion (4) has a top wall (11) to cover an opening portion (3) of a vessel (2), a side wall (12) projecting from said top wall (11) along an axis (X) of said plug portion (4), which wall has an inner circumferential surface arranged to fit on an outer circumferential surface of said opening portion (3), and a cylindrical wall (15) forming a receiving chamber (14) having an opening (13) at its lower end face, which wall projects from said top wall (11) on the inside of said side wall (12),

said seal plug (5) closes said opening (13) by being fixed to said cylindrical wall (15) loosely fitting into said sleeve (6) and has an outer circumferential portion (17) projecting from the outer circumferential

surface of said cylindrical wall (15) to a position where it comes below said sleeve (6) on the direction along said axis (X),

said sleeve (6) is welded to the inner circumferential surface of said opening portion (13).

3. A sealing mechanism as claimed in Claim 2 wherein said seal plug (5) is welded to the lower end face of said cylindrical wall (15) while said receiving chamber (14) is filled with a filling (16).

4. A sealing mechanism as claimed in Claim 2 or 3 wherein said sleeve (6) has a sharp head portion (18) formed by its lower end face sloping with respect to the axis (X).

5. A sealing mechanism as claimed in any one of claims 2 or 3 wherein said sleeve (6) and said seal plug (5) are made of same material as of said vessel (2).

6. A sealing mechanism as claimed in claim 5 wherein said material of which said vessel (2), said sleeve (6), and said seal plug (5) are made is PET (polyethylen-telephtalate).

7. A sealing mechanism as claimed in any one of claims 2 or 3 wherein said cap (1) is made of same material as of said vessel (2).

8. A sealing mechanism as claimed in claim 7 wherein said material of which said cap (1) and said vessel (2) are made is PET (polyethylen-telephtalate).

9. A sealing mechanism as claimed in any one of claim 4 wherein said sleeve (6) and said seal plug (5) are made of same material as of said vessel (2).

10. A sealing mechanism as claimed in claim 9 wherein said material of which said vessel (2), said sleeve (6), and said seal plug (5) are made is PET (polyethylen-telephtalate).

11. A sealing mechanism as claimed in any one of claim 4 wherein said cap (1) is made of same material as of said vessel (2).

12. A sealing mechanism as claimed in any one of claim 5 wherein said

cap (1) is made of same material as of said vessel (2).

13. A sealing mechanism as claimed in any one of claim 9 wherein said cap (1) is made of same material as of said vessel (2).

14. A sealing mechanism as claimed in claim 11 wherein said material of which said cap (1) and said vessel (2) are made is PET (polyethylen-telephtalate).

15. A sealing mechanism as claimed in claim 12 wherein said material of which said cap (1) and said vessel (2) are made is PET (polyethylen-telephtalate).

16. A sealing mechanism as claimed in claim 13 wherein said material of which said cap (1) and said vessel (2) are made is PET (polyethylen-telephtalate).